Miscellaneous, Product Brochure

Interest in any of the products,

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Miscellaneous

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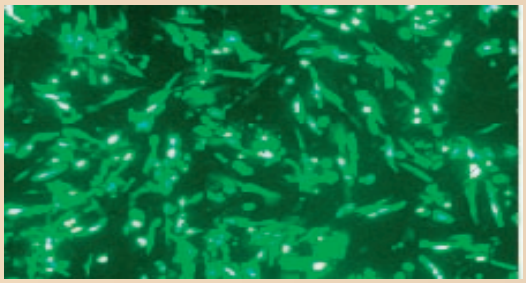
Avantgene Transfection Reagent

AvantGeneTM2 is a broad range transfection reagent that efficiently delivers DNA molecules into a variety of cultured cells. AvantGene has been extensively tested by Allele scientists in Hela, 293, 293T, CHO, COS-7, HUVEC, 3T3-L1, NIH 3T3, MCF-7, Vero E6, C2C12 and rat L6 muscle cells and found to be superior to many other transfection reagents. cDNA expressing plasmids, Allele's RNAi LineSilenceTM cassettes and Allele's RNAi SilenCircleTM plasmids have been tested with AvantGene reagent.

Usage Tips

AvantGene reagent has low cell toxicity and can work in a wide range of concentrations. For a 24-well plate transfection, use 2.5 µl AvantGene reagent as a starting point. In general, more AvantGene reagent within a 2-3 fold range from the starting point results in higher transfection efficiency, however, higher amount of reagent might also result in toxicity in certain cells.

For more tips, visit www.allelebiotech.com



Transfection of GFP plasmid into rat muscle cells using AvantGene

Starting Conditions for Using Avantgene

Culture Plate:	6-well	12-well	24-well	96-well
Surface Area:	9.4 cm^2	3.8 cm^2	1.9 cm^2	0.32 cm^2
AvantGene:	5-20 µl	2.5-10 µl	1.25-5 µl	0.5-1.25 µl
Serum-free media:	200 µl	100 µl	50 µl	10 µl
Complete media:	800 µl	400 µl	200 µl	100 µl
Plasmid DNA:	1-4 µg	0.5-2 µg	0.25-1 µg	0.1-0.25 µg

Product Name	Catalog	Quantity
AvantGene Transfection Reagent	ABP-TC-ATR125U	125 uL
	ABP-TC-ATR250U	250 uL
	ABP-TC-ATR750U	750 uL

Insect Cells

Sf21 Insect Cells

The Sf21 cell line was cloned from pupal ovarian tissue of the Fall Armyworm Spodoptera frugiperda by Vaughn et al. The Sf21 cell line is highly susceptible to infection with Autographa California nuclear polyhedrosis virus (AcNPV baculovirus), and can be used with all baculovirus expression vectors. Because Sf21 cells have a large size they provide higher expression levels of some proteins.

Product Name	Catalog	Quantity
Sf21 Insect Cells (Frozen)	ABP-CEL-10007	1 x 10^7 cells

Sf9 Insect Cells

The Sf9 cell line was derived from pupal ovarian tissue of the Fall armyworm Spodoptera frugiperda. The Sf9 cell line is highly susceptible to infection with Autographa california nuclear polyhedrosis virus (AcNPV baculovirus), and can be used with all baculovirus expression vectors. Sf9 cells are commonly used to isolate and propagate recombinant baculoviral stocks and to produce recombinant proteins.

Product Name	Catalog	Quantity
Sf9 Insect Cells (Culture)	ABP-CEL-10002	1 x 10^7 cells
Sf9 Insect Cells (Frozen)	ABP-CEL-10006	1 x 10^7 cells

T.ni Insect Cells

The T.ni Insect Cell Line, derived from ovarian cells of cabbage looper, Trichoplusia ni, have been shown to be capable of expressing significantly higher levels of secreted recombinant proteins compared to other insect cells. In addition, it also offers faster doubling time when compared to Sf9 or Sf21. Orbigen's T.ni Insect Cells have been adapted for growth in serum free medium.

Product Name	Catalog	Quantity
T.ni Insect Cells (Culture)	ABP-BVD-10005	1 x 10^7 cells
T.ni Insect Cells (Frozen)	ABP-CEL-10008	1 x 10^7 cells

Fetal Bovine Serum

* USDA Approved
* Economical Alternative to US Sourced FBS
* Origin: Mexico
    - o Complete traceability and extensive document trail
    - o Complete control of processing
    - o Mexico is considered free of BSE, FMD, & SVD by the USDA
* Performance tested on common cell lines:
    - o BHK-21
    - o COS-7
    - o HeLa
    - o L-929
    - o Sf-9
* Mycoplasma and Endotoxin tested
* Sterile: 0.1 um triple-filtered
* Supplied in gamma-irradiated, sterile PETG bottles
* For in vitro research only

Product Name	Catalog	Quantity
Allele Validated Fetal Bovine Serum	ABP-MED-FBS0050	50 mL
	ABP-MED-FBS0500	500 mL

Grace's Insect Culture Medium

Grace's Insect Medium was developed in 1962 and has been shown, with the addition of serum, to support the growth of insect cells, including Spodoptera frugiperda. Allele's Grace's Insect Culture Medium (Unsupplemented) is serum-free and ideal for transfection because it does not contain lactalbumin hydrolysate, or yeastolate which can interfere with transfection. When supplemented with L-glutamine, lactalbumin hydrolysate, and yeastolate Grace's Insect Medium can be used for general growth and maintenance of insect cells.

Product Name	Catalog	Quantity
Grace's Insect Medium (Unsupplemented)	ABP-MED-10004	1 L

Serum-Free Insect Culture Medium

Allele's Serum-Free Insect Culture Medium is specifically developed for the Baculovirus Expression Vector System (BEVS) technology. It supports excellent growth and propagation of Sf9, Sf21, T.ni, High Five™, and other insect cells and yields high levels of virus replication and recombinant protein production. The Serum-Free Insect Culture Medium has been tested to produce high cell yields and superior recombinant protein expression results with multiple cell lines and in a variety of culture environments. The Serum-Free Insect Culture Medium is optimized for high density cell growth and contains a high-density lipid, shear protectants, and optimum levels of glucose and L-glutamine. Supplementation is generally not required.

Formulation

Contains 50 µg/ml gentamycin.

Optimum growth temperature is 27 ± 1°C.

Optimum pH is 6.1 – 6.3.

Most insect cell lines can be transferred directly into the Serum-Free Insect Culture Medium without adaptation. Seeding densities should be 4 x 105^ – 1 x 10^6 viable cells per milliliter of culture.

The Serum-Free Insect Culture Medium has been tested in stationary culture, stir flasks, shaker flasks, and Fermbach™ flasks for scale-up to bioreactors.

Product Specifications

Test	Method	Specification
pH	Potentiometric	6.1 – 6.4
Appearance	Visual inspection	Clear yellow solution
Endotoxin	LAL gel clot	≤ 10.00 EU/ml
Sterility	Current USP membrane filtration	No growth
Osmolality	Vapor point elevation	350-380 mOsm/kg

Product Name	Catalog	Quantity
Serum-Free Insect Culture Medium	ABP-MED-10002	1 L

TNM-FH Insect Culture Medium

TNM-FH medium is fully supplemented Grace's medium including trace medals, lactalbumin hydrolysate, yeastolate, and 10% heat inactivated fetal bovine serum. This medium is ideally suited for growth, infection, and protein expression of insect cell lines. This medium may be used for suspension or monolayer cultures.

Product Name	Catalog	Quantity
TNM-FH Insect Culture Medium	ABP-MED-10001	1 L

AlleleBalanced Luciferase Assay Kit

AlleleBalanced Luciferase Assay Kit is a novel formulation for measuring fire fly (Photinus pyralis) luciferase gene (luc) expressions in mammalian tissue culture cells or in bacteria. Resulting from Allele Biotech's extensive research and development efforts, this brand-new assay system offers extremely sensitive detection tools for those using luc as reporter. It provides a simple reaction system balancing sensitivity and stability to suit most routine Luciferase based gene expression analysis. The kit can be used in low or high throughput applications at a much reduced cost. The AlleleBalanced Luciferase Assay Kit is very easy to ship, store, and use.

Features

-High sensitivity, gives more signal than compared leading brands

-Stability, offers maintenance of more than 95% signal level after 3 hours

-Easy to use, simply lyse the cells, mix, and read

-Low cost shipping, the reagents are stable for a few days at room temperature, eliminating the need for cold packaging.

Applications

Suitable for molecular and cellular studies:

-Enhancer/promoter analysis with luc as a reporter gene

-Enzymatic screening assays

-Control experiments using Luciferase for transgene expression, RNAi

Product Name	Catalog	Quantity
AlleleBalanced Luciferase Assay Kit	ABP-PA-ABLA001	100 RXNS
	ABP-PA-ABLA011	1000 RXNS

AlleleExtract-B Protein Reagent

AlleleExtract-B Protein Reagent provides a single-step method of gently extracting proteins from a wide range of bacterial cells. Using this reagent eliminates the need for repeated sonication and freezing/thawing steps that are commonly used to release recombinant proteins from E coli. Extracted proteins are suitable for many affinity purification and analysis methods, e.g. GST and 6xHis purification systems. If preferred, DNAse I, lysozyme, protease inhibitor, salts, etc. may be added to the reagent. AlleleExtract-B Protein Reagent offers several fold increase in the yield of soluble proteins when compared with other commercial lysis systems.

Features

- Nonionic detergent in either PBS or Tris based buffer. Eliminates mechanical disruption and provides a gentle and efficient method for extracting proteins
- Achieves high yield of soluble proteins
- Compatible with most purification systems
- May be used for soluble and insoluble protein extraction from bacterial cell lysates.

Product Name	Catalog	Quantity
AlleleExtract-B Protein Reagent (PBS Buffered)	ABP-PA-AXBR500P	500 mL
	ABP-PA-AXBR125P	125 mL
AlleleExtract-B Protein Reagent (Tris Buffered)	ABP-PA-AXBR500T	500 mL
	ABP-PA-AXBR125T	125 mL

AlleleExtract-M Protein Reagent

AlleleExtract-M Mammalian Protein Extraction Reagent provides an effective and gentle method for extracting proteins from mammalian cells. This reagent uses a non-ionic detergent in either PBS (products with catalogue number ending with "P")or 25 mM Tris, pH 7.4, and 250 mM (products with catalogue number ending with "T") to extract nuclear and cytoplasmic protein from cultured cell lines. AlleleExtract-M may be used conjunctively with reporter assays, immunoassays, and protein purification. It is easily digested with protein assays, such as Western blotting, Coomassie Blue, Bradford, and BCA Protein Assays.

Features

- Highly effective and gentle method for protein extraction from mammalian cells; eliminates cell scraping from culture dish
- Fully dialyzable and may be used conjunctively with subsequent assay systems.

Applications

- Extracting proteins from mammalian cells for most molecular biology applications including Western Blotting, Coomassie Blue, Bradford, BCA Protein Assays, and others.

Product Name	Catalog	Quantity
AlleleExtract-M Protein Reagent (PBS Buffered)	ABP-PA-AXMR500P	500 mL
	ABP-PA-AXMR125P	125 mL
AlleleExtract-M Protein Reagent (Tris Buffered)	ABP-PA-AXMR500T	500 mL
	ABP-PA-AXMR125T	125 mL

New* AlleleExtract-I Protein Reagent

Product Name	Catalog	Quantity
AlleleExtract-I Protein Reagent (PBS Buffered)	ABP-PA-AXIR500P	500 mL
	ABP-PA-AXIR125P	125 mL
AlleleExtract-I Protein Reagent (Tris Buffered)	ABP-PA-AXIR500T	500 mL
	ABP-PA-AXIR125T	125 mL

Insect Lysis Buffer

5x Insect Lysis Buffer

The 5x Lysis Buffer is specifically formulated for insect cells. It has been tested in a wide variety of insect cell lines including Sf9, Sf21, T.ni, High Five, and others. The high-quality, freshly added protease inhibitors in the insect lysis buffer ensure the best lysis result and minimal protein degradation.

Protocol

1. Determine insect cell density (cell/ml);
2. Spin down cells at 2,500 g for 5 min;
3. Decant media completely;
4. Dilution 5x Insect Lysis Buffer stock into 1x solution using distilled water. Put on ice;
4. Resuspend cell pellet (4X106 cells) in 1ml of ice cold 1X insect lysis buffer;
5. Incubate on ice for 45 min;
6. Centrifuge at 45K rpm for 30 min;
7. Collect clear lysate.

Product Name	Catalog	Quantity
5x Insect Lysis Buffer (with Protease Inhibitor)	ABP-BUF-10010	10 mL

Standard DNA Synthesis CPG

Oligonucleotide synthesis is a valuable step in research. There are many needs for oligo synthesis: sequencing, Polymerase Chain Reaction (PCR), Ligase Chain Reaction (LCR), reverse transcriptase PCR, hybridization studies, site directed mutagenesis, microarray experiments dye terminator sequencing reactions, cloning and other techniques. Phosphoramidite chemistry is generally used for the solid-phase synthesis of the oligo-nucleotides, which is carried out by sequentially adding the desired nucleotide units via its 3'-terminal hydroxy group to an immobilized oligonucleotide chain. We offer all four DNA nucleosides(deoxyadenosine, deoxycytidine, deoxyguanosine, and deoxythymidine) covalently attached to a CPG particle for your synthesis needs.

Features

Use: This product is used to put dN at the 3' end of oligonucleotides.

CPG size: 1000 A

Formula: N/A

Purity: 95%+

Diluent: N/A Stability in Solution: N/A- Highly effective and gentle method for protein extraction from mammalian cells; eliminates cell scraping from culture dish

- Fully dialyzable and may be used conjunctively with subsequent assay systems.

Product Name	Catalog	Quantity
3'-dA CPG 1000 A	AHP-CH-DACPG01	per gram
3'-dC CPG 1000 A	AHP-CH-DCCPG01	per gram
3'-dG CPG 1000 A	AHP-CH-DGCPG01	per gram
3'-dT CPG 1000 A	AHP-CH-DTCPG01	per gram

3'-Amino-Modifier C7 CPG

* introduces a primary amine to functionalize the 3'-terminus of the target oligonucleotide
* can be use to attach a variety of modifiers (i.e., activated NHS ester or isothiocyanate fluorescent label) to an oligo
* can be used to attach an oligo to a solid surface
* users may print their own oligonucleotide-based microarrays

Product Name	Catalog	Quantity
3'-Amino-Modifier C7 CPG	AHP-CH-AMI0103	100mg
	AHP-CH-AMI1003	1000mg

3'-Biotin CPG

* can be used to detect proteins using various methods, i.e. non-radioactive immunoassays, cytochemical staining, cell separate, isolation of nucleic acids, detection of specific DNA/RNA sequences by hybridization, probing of conformational changes in ion channels

* provides means for purification

Product Name	Catalog	Quantity
3'-Biotin CPG	AHP-CH-BIO0103	100mg
	AHP-CH-BIO1003	1000mg

3'-Dabcyl CPG

* a commonly used dark quencher due of its light absorbance properties and lack of residual fluorescence
* dabcyl's absorption properties limit the range of fluorophores it can quench to those emitting at 400-550 nm with max absorption at 471 nm
* doubly labeled oligonucleotides can be used as diagnostic probes for DNA and RNA quantification and to discriminate single nucleotide variations

Product Name	Catalog	Quantity
3'-Dabcyl CPG	AHP-CH-DAB0103	100mg
	AHP-CH-DAB1003	1000mg

3'-FAM CPG

* label oligos with fluorescein, a fluorophore with an isosbestic point (equal absorption for all pH values) at 460 nm, at the 3'-end
* doubly labeled oligonucleotides can be used as diagnostic probes for DNA and RNA quantification and to discriminate single nucleotide variations
* singly labeled oligonucleotides can be used for DNA sequencing and in situ hybridization

Product Name	Catalog	Quantity
3'-FAM CPG	AHP-CH-FAM0103	100mg
	AHP-CH-FAM1003	1000mg

3'-Thiol-Modifier C6 S-S CPG

* important in the production of diagnostic probes

* terminal thiol group allows attachment of an oligo to various ligands (i.e., biotin, alkaline phosphatase, or fluorescent dyes)

* allows for the attachment of an oligo to a solid surface via a maleimide linkage

Product Name	Catalog	Quantity
3'-Thiol-Modifier C6 S-S CPG	AHP-CH-TC60100	100mg
	AHP-CH-TC61000	1000mg

Oligo Modification Phosphoramidite: 5'-FAM

* can label the 5'-end of an oligo with a fluorescein, a fluorophore with an isosbestic point (equal absorption for all pH values) at 460 nm
* fluorescein has an absorption maximum at 494 nm and emission maximum of 521 nm
* doubly labeled oligonucleotides can be used as diagnostic probes for DNA and RNA quantification and to discriminate single nucleotide variations

Product Name	Catalog	Quantity
3'-Dabcyl CPG	AHP-CH-DAB0103	100mg
	AHP-CH-DAB1003	1000mg

H2O3 0°C Dry Bath

H2O3 Ice-Temp Incubators

H2O3 is a thermoelectric (Peltier) dry bath chiller. Connected to the provided 12 VDC power supply, the aluminum sample blocks is automatically maintained at between 0~2°C. It is designed for keeping sample tubes at ice temperature in many experimental procedures. It is a simple and convenient replacement of wet ice bucket. Two models are currently available.

Contents

- One thermoelectric chilling device, model H2O3-96 or H2O3-48
- One 12 V power supply adaptor
- One sample block cover
- One block extractor
- One User Manual
- Aluminum sample blocks for H2O3-96
- Four 0.2-ml sample blocks
- Two 1.5-ml sample block

-or for H2O3-48

- Two 0.2-ml sample blocks
- One 1.5-ml sample block

Specifications

- Operation ambient temperature: 8~30°C
- Sample block steady state temperature: 0~2°C (with two 0.2-ml sample blocks installed and block cover applied)
- Electrical input: 12 VDC, 4A (H2O3-96) or 3 A (H2O3-48)
- Dimensions: 185×185×90 mm (7.25×7.25×3.5 in)

H2O3-96 thermoelectric (Peltier) dry bath chiller

Place the chiller on your lab bench or a similar sturdy flat surface. The space between the bottom of the unit and bench surface should be clear. There should be at least two inches (5 cm) of clearance around the unit in order to allow sufficient ventilation.

Product Name	Catalog	Quantity
H2O3 Ice-Temp Incubator 48 (0oC~4oC)	H203-48	1 unit
H2O3 Ice-Temp Incubator 96 (0oC~4oC)	H203-96	1 unit

H2O3 Chilling-Heating Dry Bath Incubator

H2O3 dry bath incubators use thermoelectric device (Peltier effect device) to heat and chill samples. H2O3-75C/100C let you set the temperature between 0 ℃～75 ℃/100 ℃. It is useful for temporary storage of cells, samples and enzymes, for enzymatic reaction and heat inactivation, and for cell transformation.

Contents

- One thermoelectric chilling device, model H2O3-75C/100C
- One 12 V power supply adaptor
- One sample block cover
- One block extractor
- One User Manual
- Aluminum sample blocks for H2O3-96
- Four 24×0.2 mL blocks and two 6×2 mL
- Twelve 1.5 mL tube adaptors (to use 1.5 mL microtubes in 2 mL blocks)

Specifications

Power supply：12 V DC, 5 A
Temperature range：0 ℃ to 75 ℃(H2O3-75C);
0 ℃ to 100 ℃(H2O3-100C);
Temperature precision：1 ℃
Sample block temperature evenness：±0.5 ℃
Dimensions：185 × 185 × 90 mm
Weight：1.5 kg
Package weight including sample blocks：2.5 kg

H2O3-100C Chilling-Heating Dry Bath Incubator

H2O3-75C/100C has a modular design of sample blocks. The user can select and combine various block modules to accommodate different sample tubes or plate, for example, 0.2, 0.5, 1.5 or 2 mL tubes or a whole 96-well plate or 96-well flat bottom culture plate.

Product Name	Catalog	Quantity
H2O3 Ice-Temp Incubator 75C	H203-75C	1 unit

MS100 Dry Bath Shaker

Features

- Combines a shaker and dry bath incubator in one
- Back lit LCD display of temperature and time
- Simultaneous display of set point and actual value
- Adjustable parameters of temperature, shaker speed and time to meet wide range of applications
- Programmable two segments of parameter settings.
- Audio alert upon program completion
- Eight models interchangeable sample blocks to accommodate 0.2 ml to 50 ml tubes

Specifications

- Temp. range: 0 to 100 (TSC-96), or 5 above ambient temp. to 100 (TS-96)
- Temp. accuracy: within ± 0.5
- Display precision: 0.1
- Heating rate from 20 to 100 : 20 min
- Timer range: 1 min ~ 99 h 59 min
- Shaking speed: 200 rpm-1500 rpm
- Mixing orbit: 2 mm
- Power input: 100~120 VAC, 50/60Hz, 150W
- Dimensions: 354 x 240 x 170 mm
- Net Weight: 6 kg

The unit has been individually tested for its function and carries one year warranty CE certified

Product Name	Catalog	Quantity
Allelequip Thermoshaker (5oC~99oC)	MS-100	1 unit

ThermoMix500

ThermoMix500* combines the functions of mixing and temperature control, providing a convenient means to incubate samples. This unit employs Peltier effect heat exchange tec.nology to provide accurate, stable temperature control. It can be used with a selection of interchangeable block for plates and tubes.

Features

* Digital controled Peltier heating/cooling
* Exact temperature control with PID circuit
* Gentle, reliable orbital mixing, up to 1500 rpm
* Special damping provides quiet operation even at high speeds
* Choose from several standard sample blocks for plates or tubes
* Custom blocks are available to satisfy special experimental requirements
* Large VFD display and simple controls provide a friendly user interface
* Conforms to CE safety standard

Sample Blocks

Block A
1.5 ml x 40

Block B
0.2 ml x 96

Block C
0.5 ml x 54

BlockH
11.5 x 7.3 x 3.8cm

SPECIFICATIONS	
Models	ThermoMix500
Temperature Setting Range	0 to 105°C
Temperature Control Range	Room Temperature* -14° to 100°C
Timing Range (for mixing)	1 Minute to 99 Hours 59 Minutes
Mixing Speed	300 to 1500 RPM
Mixing Amplitude	3 mm
Temperature Control Accuracy	< 0.5° C
Display Accuracy	< 0.5° C
Temperature Uniformity	< 0.5° C
Heating Time	< 12 min. (from 20 to 100° C
Cooling Time	~12 min. (from room temp to room temp -10° C ~ 15 min. (from 100° C to room temp +10° C)
Standard Blocks	A: 1.5 mL x 40 B: 0.5 mL x 54 C: 0.2 mL x 96 D: 15mm diameter x 24 E: 2.0 mL x 40
Dimensions (LxWxH)	29.5 x 26.5 x 17.0 cm
Net Weight	8.5 kg
Power Supply, MB 101	110VAC, 50/60 Hz, 125W
*The ability to hold low temperatures with the stated accuracy varies with room temperature, so in a room at 20ºC the lower end of the range would be 6ºC (20ºC minus 14ºC)	

Product Name	Catalog	Quantity
Ampicon ThermoMix Shaker	ThermoMix500	1 unit

ThermoCube500

ThermoCube500* Cooling & Heating Blocks provide temperature control and a convenient means to incubate samples. This unit employs Peltier effect heat exchange technology to provide accurate, stable temperature control. It can be used with a selection of interchangeable blocks for plates and tubes. Purchase blocks separately.

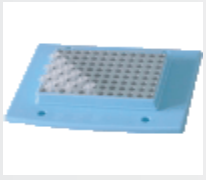
Features

- Programmable for up to 5 sequential steps of different temperature and duration.
- Large LCD display and simple controls make an easy-to-use interface for programming.
- Displays set temperature, actual temperature, running time and time remaining.
- Automatic stabilizing (PID) control to maintain set temperature.
- Wide Temperature Setting Range
- Sample blocks are easily removed for cleaning or replacement.

Sample Blocks

Block A
1.5 ml x 40

Block B
0.2 ml x 96



Block C
0.5 ml x 54

BlockH
11.5 x 7.3 x 3.8cm

SPECIFICATIONS	
Model	ThermoCube500
Temperature Setting Range	-10 to 105ºC
Temperature Control Range	0 to 100ºC
Timing Range	1 min to 99 hrs 59 or continuous
Display Accuracy	< 0.5ºC
Temperature Control Accuracy	< 0.5ºC
Block Temperature Uniformity	< 0.5ºC
Heating Time	< 35 min (from 20 to 100ºC)
Cooling Time	~ 25 min (20 to 0ºC)
Blocks: (size x positions)	A: 1.5mL x 40 B: 0.5 mL x 54 C: 0.2 mL x 96 D: 15mm diameter x 24 E: 2.0 mL x 40
Water Bath (LxWxH)	11.5 x 7.3 x 3.8 cm
Heating Parts	TE Module
Cooling Parts	TE Module
Size	30 x 20 x 15cm
Weight	3.3 kg
Power Supply	220VAC 50Hz 120W Available for 110VAC

Notes:
1. The performance parameters above are based on 1.5 mL X 40 standard block. TE = Peltier heat exchange:
2. The base price does not include a sample block. Please order the desired block(s) from the listing at Block profile.

Product Name	Catalog	Quantity
Ampicon Digital Control Dry Bath ThermoCube500	ThermoCube500	1 unit

ThermoMini500

ThermoMini500* feature the same quality and reliability as the ThermoCube Dry Bath series but in a smaller, light-weight, fixed-block format. ThermoMini500 models offer digitally controlled heating for a variety of sample formats. ThermoMini500 models are powered by a 12 VDC power adapter that wil operate on 110 or 220 VAC.

Features

- Lightweight and compact – easily moved from place to place
- Aluminum alloy sample blocks are easy to clean and disinfect.
- Digital time and temperature controls and displays.
- Peltier design provides thermal efficiency, reliability.
- Choose from five standard blocks:

o Available block sizes36 x 0.2 mL tubes, 15 x 0.5 mL tube and 8 x 1 .5 mL tubes. The 96 x 0.2 mL block accepts 0.2 mL tube strips and 96 wells plates.

Sample Blocks

Block A
1.5 ml x 40

Block B
0.2 ml x 96

Block C
0.5 ml x 54

BlockH
11.5 x 7.3 x 3.8cm

SPECIFICATIONS	
Models	ThermoMix500
Temperature Setting Range	0 to 105°C
Temperature Control Range	Room Temperature* -14° to 100°C
Timing Range (for mixing)	1 Minute to 99 Hours 59 Minutes
Mixing Speed	300 to 1500 RPM
Mixing Amplitude	3 mm
Temperature Control Accuracy	< 0.5° C
Display Accuracy	< 0.5° C
Temperature Uniformity	< 0.5° C
Heating Time	< 12 min. (from 20 to 100° C
Cooling Time	~12 min. (from room temp to room temp -10° C ~ 15 min. (from 100° C to room temp +10° C)
Standard Blocks	A: 1.5 mL x 40 B: 0.5 mL x 54 C: 0.2 mL x 96 D: 15mm diameter x 24 E: 2.0 mL x 40
Dimensions (LxWxH)	29.5 x 26.5 x 17.0 cm
Net Weight	8.5 kg
Power Supply, MB 101	110VAC, 50/60 Hz, 125W
*The ability to hold low temperatures with the stated accuracy varies with room temperature, so in a room at 20ºC the lower end of the range would be 6ºC (20ºC minus 14ºC)	

Product Name	Catalog	Quantity
Ampicon Digital Control Dry Bath ThermoMini500	ThermoMini500	1 unit

ThermoExp500

ThermoExp500* is designed to meet the varying requirements of PCR applications. Interchangeable blocks allow the ThermoExp500 to adapt to plates, tube strips and tubes (0.2/0.5 ml). Including an Unique, dual sample block permits execution of two different programs simultaneously and independently.

Features

- Very fast ramping rate saves 20% of your PCR time
- Large LCD display for easy monitoring of process
- Eight interchangeable blocks for different sample presentations
- Independently controlled dual blocks makes one machine equal two
- The gradient block allows to easily find optimal PCR condition

Large LCD display provides easy monitoring of process. Windows-based PC software makes programming simple and the finished instruction set is easily uploaded to the Thermal Cycler.

Specifications

Temperature Range	4 - 99°C
Heating Rate (max.)	~ 4°C/second
Cooling Rate (max.)	~ 3°C/second
Block Temperature Uniformity	< 0.4°C
Block Temperature Accuracy	< 0.3°C
Hot-Lid Temperature Range	30°C - 110°C
Gradient Range (Block-G only)	From 1 - 30°C
Temperature Control Mode	Block, Tube
Program Storage	99 files
Maximum Segments	5 segments
Maximum Program Steps	16 steps
Maximum Cycles	99 cycles
Power Supply	110V, 50Hz, 200W
Size (L x W x H)	47 X 34 X 26 cm
Net Weight	10 kg
Interface	RS232

Product Name	Catalog	Quantity
Ampicon PCR Thermocycler ThermoExp500	ThermoExp500	1 unit